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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 737 663 A (BASF AG) 16 October 1996 (1996-10-16) claims	1
A	EP 0 816 321 A (KURARAY CO) 7 January 1998 (1998-01-07) claim 9	8

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0737663	A	16-10-1996	DE 19513840 A1	17-10-1996
			DE 59600315 D1	13-08-1998
			EP 0737663 A1	16-10-1996
			JP 8319249 A	03-12-1996
			US 5723678 A	03-03-1998
EP 0816321	A	07-01-1998	JP 10017521 A	20-01-1998
			JP 10168006 A	23-06-1998
			AT 218527 T	15-06-2002
			CN 1393435 A	29-01-2003
			DE 69712984 D1	11-07-2002
			DE 69712984 T2	16-01-2003
			EP 1122236 A2	08-08-2001
			EP 0816321 A1	07-01-1998
			US 6232506 B1	15-05-2001
			US 5955636 A	21-09-1999
			JP 10306051 A	17-11-1998